Fig. 1

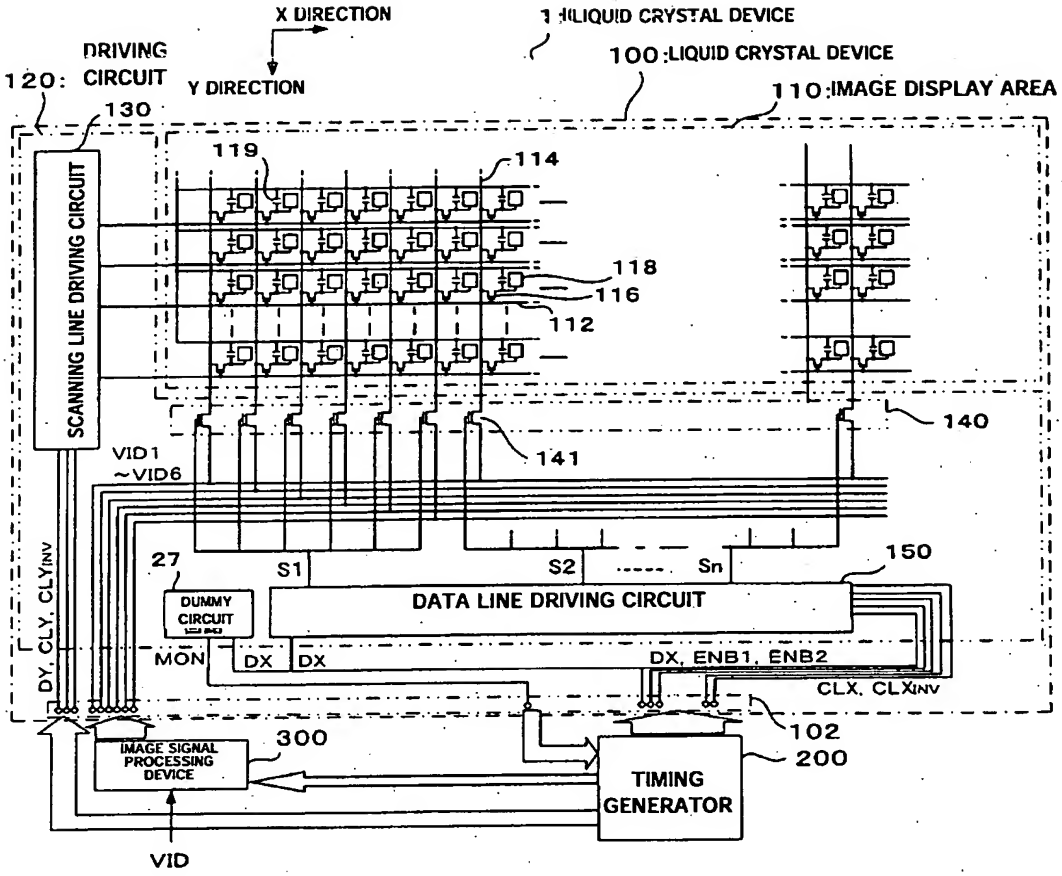
X DIRECTION
Y DIRECTION
1 :LIQUID CRYSTAL DEVICE
100 :LIQUID CRYSTAL DEVICE
110 :IMAGE DISPLAY AREA
120 : DRIVING CIRCUIT
130
SCANNING LINE DRIVING CIRCUIT
119
114
118
116
112
140
141
VID1 ~VID6
27
S1
S2
Sn
150
DUMMY CIRCUIT
DATA LINE DRIVING CIRCUIT
MON
DX
DX
DX, ENB1, ENB2
CLX, CLXINV
DY, CLY, CLYINV
102
300
200
IMAGE SIGNAL PROCESSING DEVICE
TIMING GENERATOR
VID

Fig. 2

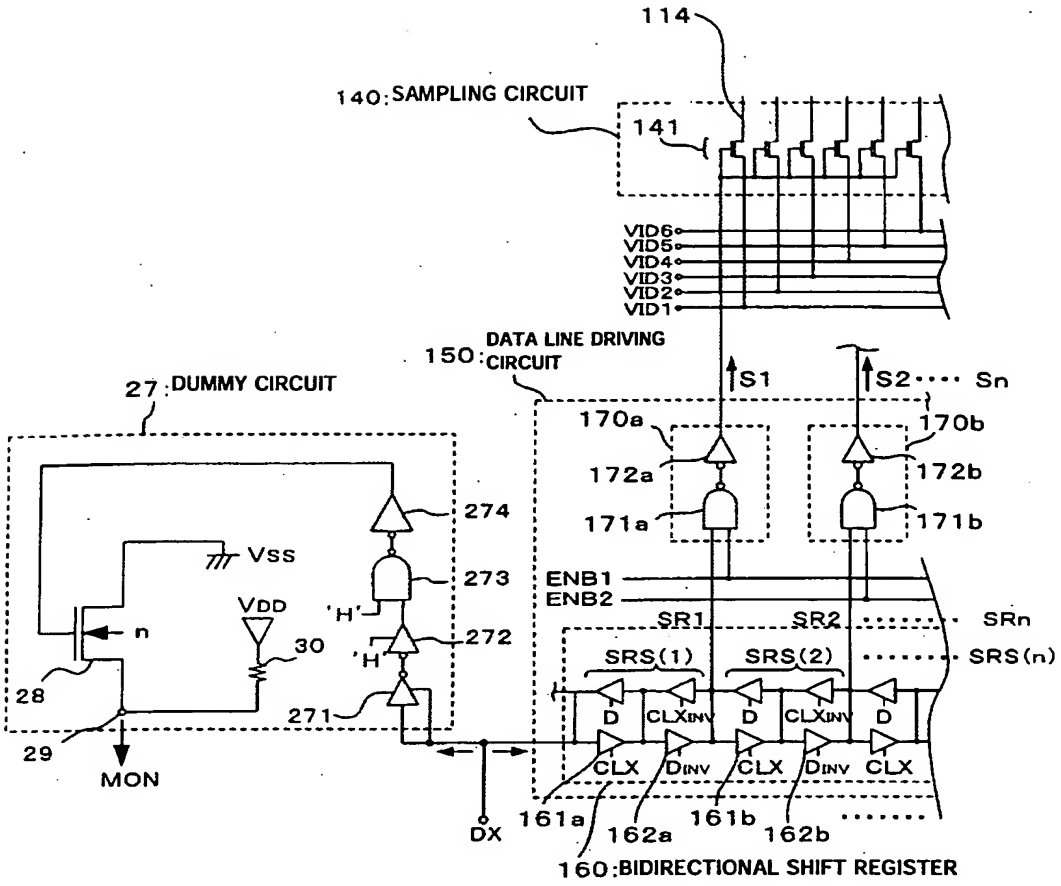
114
140:SAMPLING CIRCUIT
141
VID6
VID5
VID4
VID3
VID2
VID1
DATA LINE DRIVING CIRCUIT
150:
27:DUMMY CIRCUIT
S1
S2
Sn
170a
170b
172a
172b
171a
171b
274
273
272
271
Vss
VDD
'H'
'H'
n
30
28
29
MON
ENB1
ENB2
SR1
SR2
SRn
SRS(1)
SRS(2)
SRS(n)
D
CLXINV
CLX
DINV
DX
161a
162a
161b
162b
160:BIDIRECTIONAL SHIFT REGISTER

Fig. 3

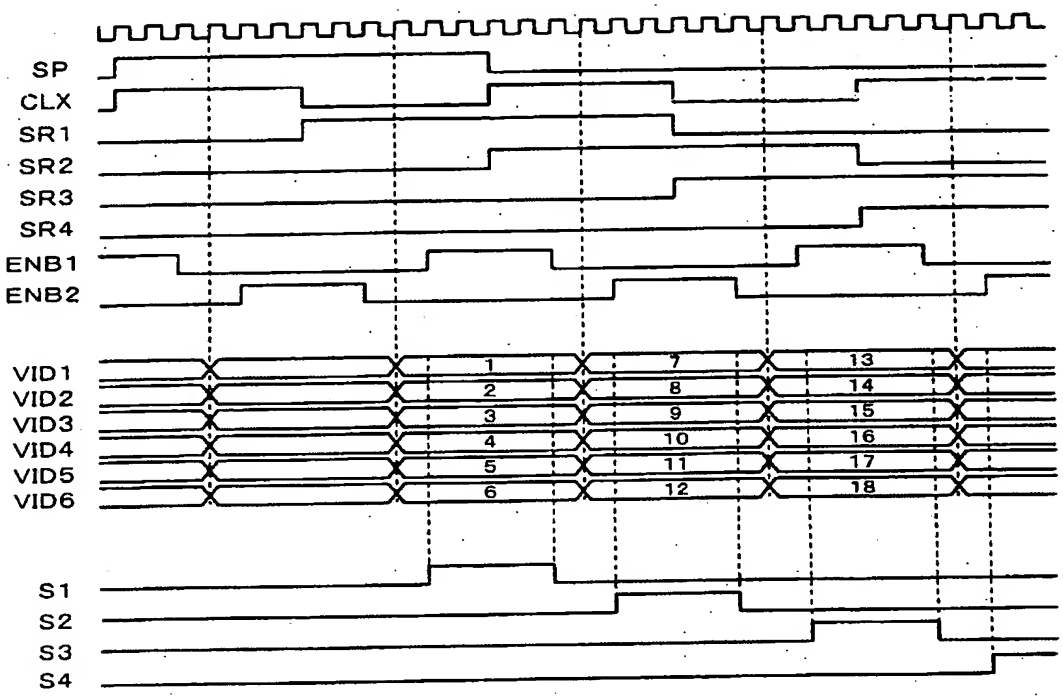
SP
CLX
SR1
SR2
SR3
SR4
ENB1
ENB2
VID1
VID2
VID3
VID4
VID5
VID6
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
S1
S2
S3
S4

Fig. 4

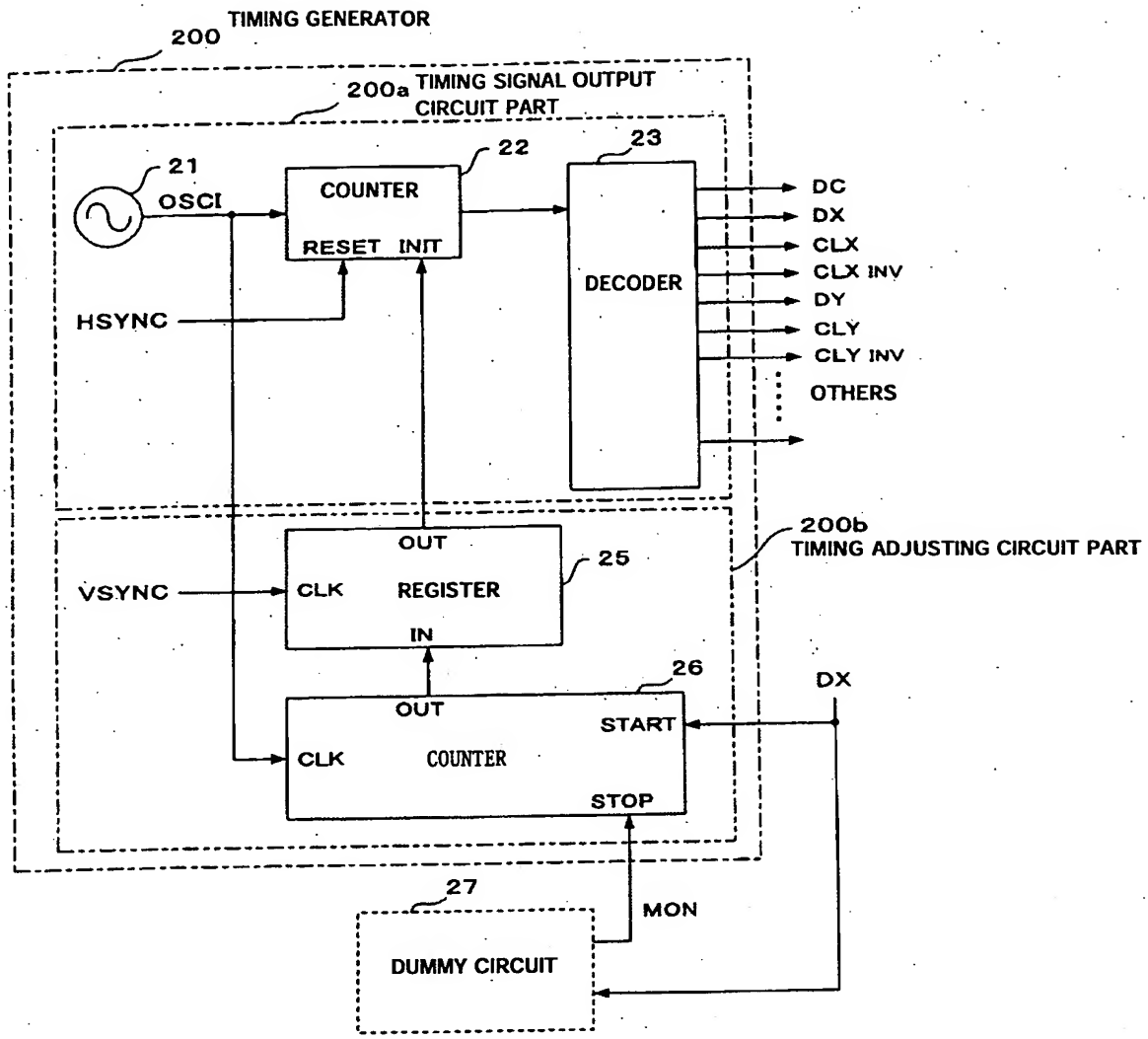
TIMING GENERATOR
200
200a TIMING SIGNAL OUTPUT CIRCUIT PART
21
OSCI
22
COUNTER
RESET INIT
23
DECODER
DC
DX
CLX
CLX INV
DY
CLY
CLY INV
OTHERS
HSYNC
200b
TIMING ADJUSTING CIRCUIT PART
VSYNC
OUT
CLK
REGISTER
IN
25
26
DX
OUT
START
CLK
COUNTER
STOP
27
MON
DUMMY CIRCUIT

Fig. 5a

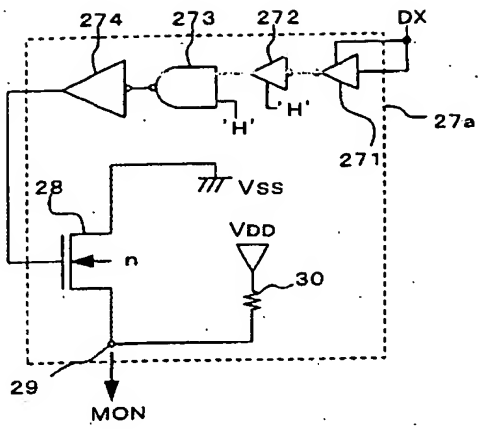

Fig. 5b

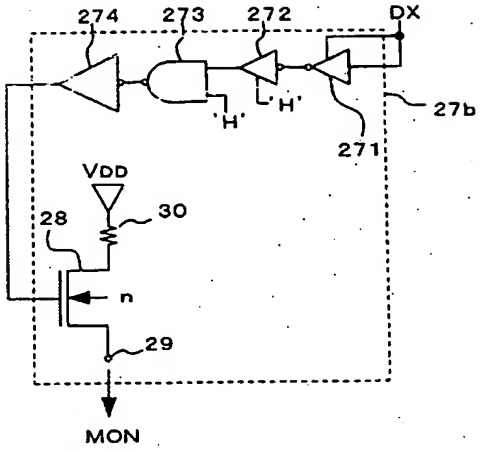

Fig. 5c

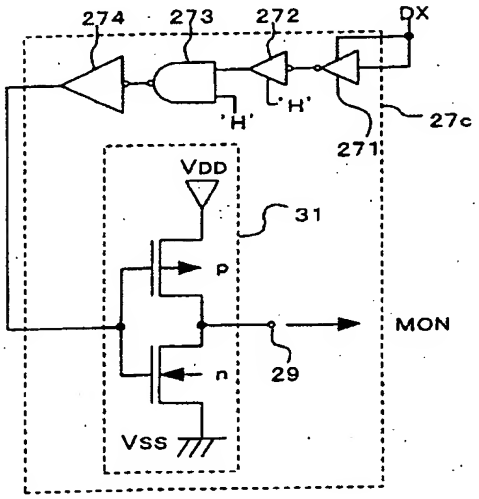

Fig. 6a

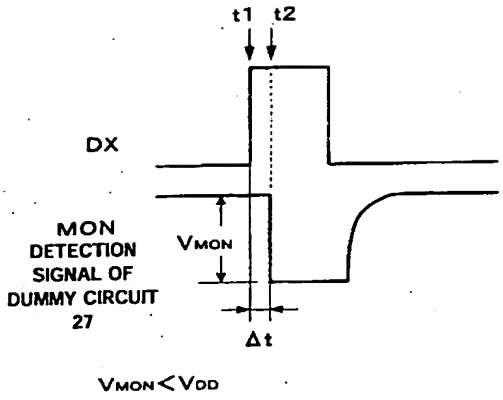

Fig. 6b

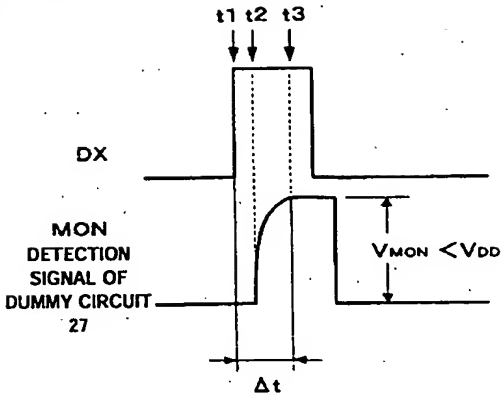

Fig. 6c

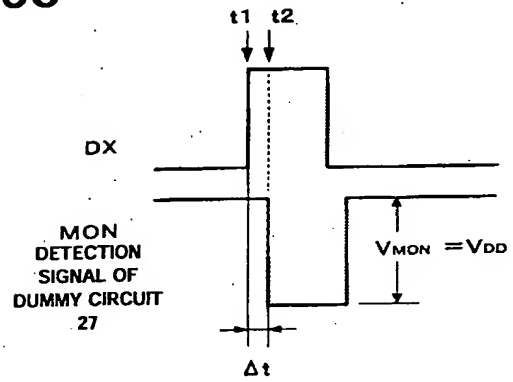

Fig. 7

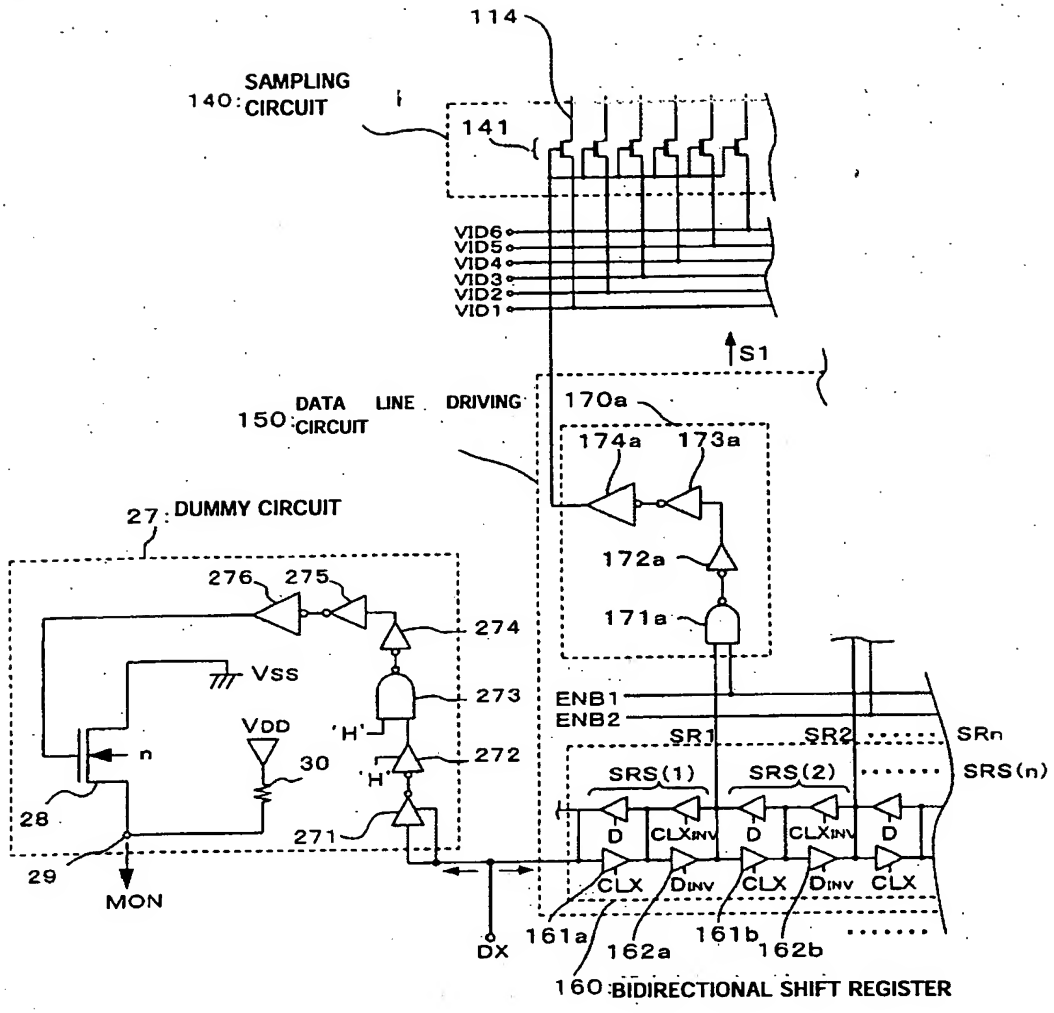
114
140: SAMPLING CIRCUIT
141
VID6
VID5
VID4
VID3
VID2
VID1
S1
150: DATA LINE DRIVING CIRCUIT
170a
174a
173a
172a
171a
27: DUMMY CIRCUIT
276
275
274
273
272
271
Vss
VDD
'H'
n
30
28
29
MON
ENB1
ENB2
SR1
SR2
SRn
SRS(1)
SRS(2)
SRS(n)
D
CLXINV
CLX
DINV
DX
161a
162a
161b
162b
160: BIDIRECTIONAL SHIFT REGISTER

Fig. 8

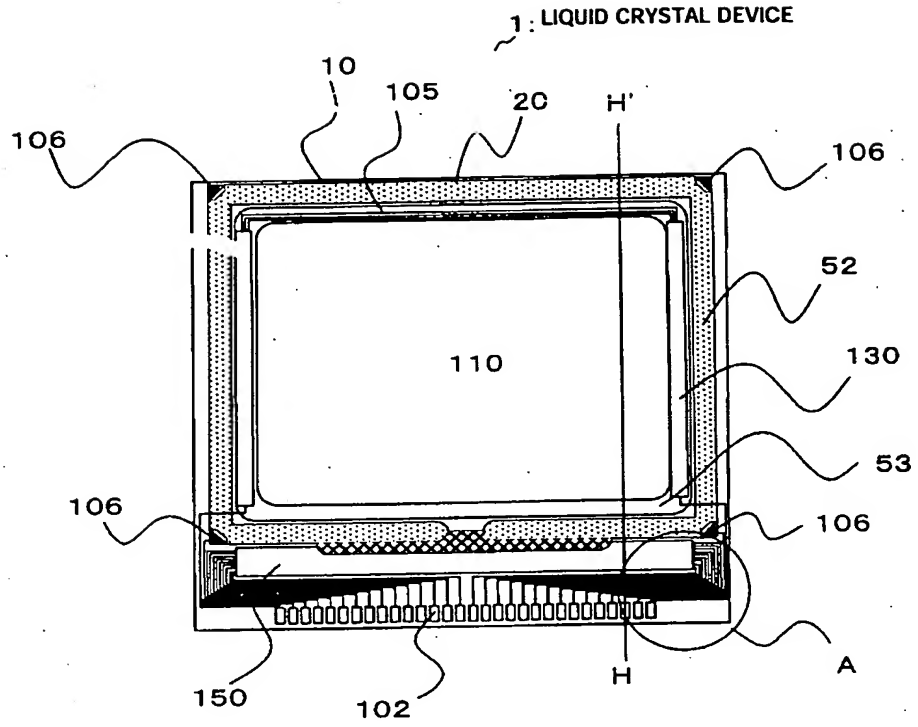
1 : LIQUID CRYSTAL DEVICE
10
105
20
H'
106
106
52
110
130
53
106
106
150
102
H
A

Fig. 9

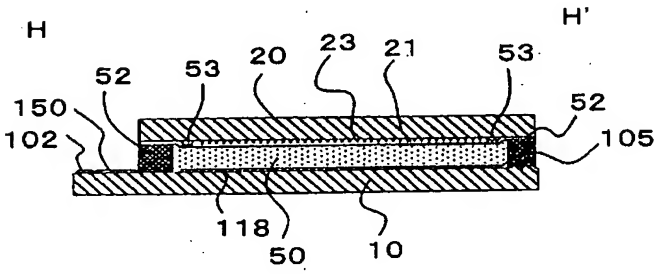
H
H'
52
53
20
23
21
53
150
52
102
105
118
50
10

Fig. 10

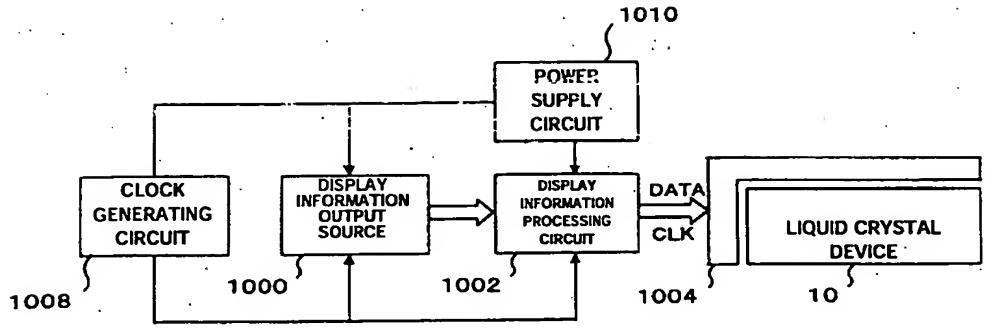
1010
POWER SUPPLY CIRCUIT
CLOCK GENERATING CIRCUIT
DISPLAY INFORMATION OUTPUT SOURCE
DISPLAY INFORMATION PROCESSING CIRCUIT
DATA
CLK
LIQUID CRYSTAL DEVICE
1008
1000
1002
1004
10

Fig. 11

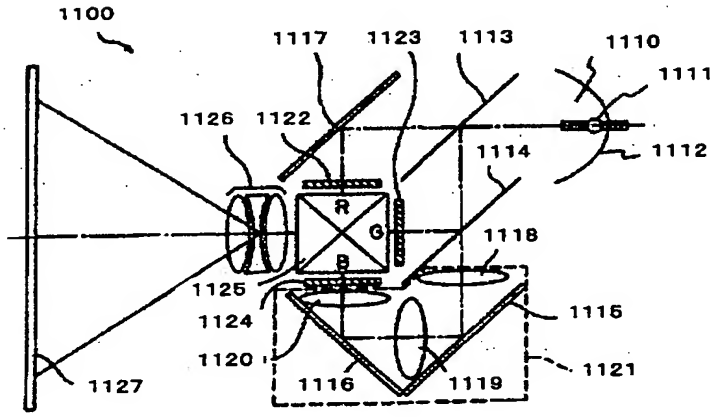
1100
1117
1123
1113
1110
1111
1126
1122
1112
1114
R
G
B
1118
1125
1124
1115
1120
1121
1127
1116
1119

Fig. 12

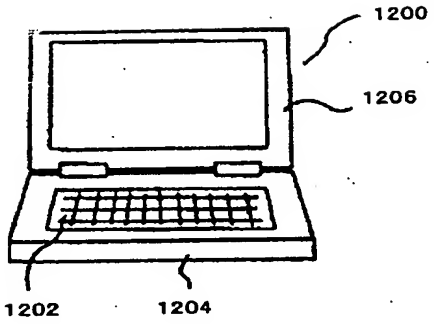

Fig. 13